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INFORMATI	ON DISCLO	SURE	Application Number	Prior Appl. 09/754,107		
			Filing Dat	Prior Filing Dat - January 5, 2001		
			First Named Inventor	Robert M. Moriarty		
Date Submitte	ed: August 2	27, 2003	Group Art Unit	1621		
(use as many :	sheets as ne	ecessary)	Examiner Name	Sikarl A. Witherspoon		
1	of	2	Attorney Docket Number	080618-0217		
	INFORMATI STATEMEN Date Submitte	INFORMATION DISCLO STATEMENT BY APPL Date Submitted: August 2 (use as many sheets as no	Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: August 27, 2003 (use as many sheets as necessary) 1 of 2	INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: August 27, 2003 (use as many sheets as necessary) Application Number Filing Dat First Named Inventor Group Art Unit Examiner Name		

				U.S. PATENT DOCUMENTS	6	
Examiner Cite No.1	U.S. Patent I	Document	Name of Patentee or Applicant of	Date of Publication of	Pages, Columns, Lines, Where Relevant	
		Number	Kind Code ² (if known)	Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
(See)	A1	6.441,245		MORIARTY ET AL.	08/27/2002	
8	A2	5,153,222		TADEPALLI ET AL.	10/1992	

FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No. ¹	Office	oreign Patent [Number ⁴	Occument Kind Code ⁵ (If known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶	
(32)	A3	EP	0 087 237	A1		08/1983			
100	A4	wo	98/39337			09/1998		1	
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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials* Cite No.1 A5		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
		BELCH et at, "Randomized, Double-Blind, Placebo-Controlled Study Evaluating the efficacy and Safety of AS-013, a Prostaglandin E ₁ Prodrug, in Patients With Intermittent Claudication," Circulation, Vol. 95, No. 9, American Heart Association Inc., pp. 2298-2302; May 6, 1997.	
	A6	NELSON, "Prostaglandin Nomenclature," Journal of Medicinal Chemistry, Vol. 17, No. 9, American Chemical Society, pp. 911-918, September 1974.	
	A7	Takano et al., "Enantiodivergent Synthesis of Both Enantiomers of Sulcatol and Matsutake Alcohol from (R)-Epichlorohydrin," Chemistry Letters, The Chemical Society of Japan, pp. 2017-2020, 1987.	
	A8	MATHRE et al., "A Practical Enantioselective Synthesis of α,α-Diaryl-2- Pyrrolidinemethanol, Preparation and Chemistry of the Corresponding Oxazaborolidines," J. Org. Chem., Vol. 56 No. 2, American Chemical Society, pp. 751-752, 1991.	
	A9	PAGENKOPF, "Substrate and Reagent Control of Diastereoselectivity in Transition Metal-Mediated Process: Development of a Catalytic Photo Promoted Pauson-Khand Reaction," Caplus 1999, Abstract XP-002097925.	
	A10	KHAND et al., "Organocobalt Complexes. Part II. Reaction of Acetylenehexacarbonyldicobalt Complexes, (R¹C₂R²)Co₂(CO) ₆ , with Norbornene and its Derivatives," J. Chem. Soc., J.C.S. Perkin I., pp. 977-981, 1963.	
(D)	A11	PAUSON, "A Convenient and General Route to a Wide Range of Cyclopentenone Derivatives," Tetrahedron, Vol. 41, No. 24, Pergamon Press Ltd., pp. 5855-5860, 1985.	

Examiner Signature	Sharl Witherpoor	Date Considered	7/15/04

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(use as many sheets as necessary)					Examiner Name	Sikarl A. Witherspoon	
Sheet	2		of	2	Attorney Docket Number	080618-0217	

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	_
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		SCHORE, "Transition-Metal-Medicated Cycloaddition Reactions of Alkynes in Organic Synthesis," Chem. Rev., Vol. 88, American Chemical Society, pp. 1081-1119, 1988.	
	A13	SHAMBAYATI et al., "N-Oxide Promoted Pauson-Khand Cyclizations at Room Temperature," Tetrahedron Letters, Vol. 31 No. 37, Pergamon Press, pp. 5289-5292, 1990.	
	A14	JEONG et al., "Catalytic Version of the Intramolecular Pauson-Khand Reaction," J. Am. Chem. Soc., Vol. 116, American Chemical Society, pp. 3159-3160, 1994.	
	A15	CHUNG et al., "Promoters for the (Alkyne) hexacarbonyldicobalt-Based Cyclopentenone Synthesis," Organometallics, Vol. 12, American Chemical Society, pp. 220-223, 1993.	
	A16	HICKS et al., "A Practical Titanium-Catalyzed Synthesis of Bicyclic Cyclopentenones and Allylic Amines," J. Org. Chem., Vol. 61 No. 8, pp. 2713-2718, 1996.	
	A17	ZHANG et al. "A Nickel(O)-Catalyzed Process for the Transformation of Enynes to Bicyclic Cyclopentenones," J. Org. Chem., Vol. 61 No. 14, pp. 4498-4499, 1996.	
Sw	A18	PAGENKOPF et al., "Photochemical Promotion of the Intramolecular Pauson-Khand Reaction. A New Experimental Protocol for Cobalt-Catalyzed [2+2+1] Cycloadditions," J. Am. Chem. Soc., Vol. 118 No. 9, American Chemical Society, pp. 2285-2286, 1996.	

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Examiner Signature	Skarl Witherapoon	Date Considered	7/5/04	

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